MINIMIX 150

(GB) CONCRETE MIXER
OPERATORS MANUAL

(F) BÉTONNIÈRE
MANUEL DE L'OPERATEUR

(E) HORMIGONERA
MANUAL DEL OPERARIO

(P) BETONEIRA
MANUAL DO OPERADOR

(NL) BETONMOLEN
BEDIENINGSHANDLEIDING



800/21330/7 Euro1 - 3/05

(GB) Serial Numbers / Numéros de série (F)
(E) Números de serie / Números de Série (P)
(NL) Serienummers

⚠ **ATTENTION!**
Make a note of the serial numbers of your machine and always quote them in any communication with a Belle Group Dealer.

⚠ **ATTENTION!**
Notez les numéros de série de la machine et indiquez-les dans toutes vos communications avec un revendeur du Groupe Belle.

⚠ **ATENCIÓN!**
Tome nota de los números de serie de su máquina y cítelos siempre en cualquier comunicación con un distribuidor del Grupo Belle.

⚠ **ATENÇÃO!**
Tome nota dos números de série da sua máquina e indique-os sempre na correspondência que trocar com o Concessionário do Grupo Belle.

⚠ **LET OP!**
Noteer alle serienummers van uw machine. Bij contact met een Belle Groep-dealer moet u deze nummers vermelden.

MACHINE SERIAL NUMBER. / NUMERO DE SERIE DE LA MACHINE.
NÚMERO DE SERIE DE LA MÁQUINA. / NÚMERO DE SÉRIE DA MÁQUINA.
MACHINESERIENUMMER.

ENGINE SERIAL NUMBER. / NUMERO DE SERIE DU MOTEUR.
NÚMERO DE SERIE DEL MOTOR. / NÚMERO DE SÉRIE DO MOTOR.
MOTORSERIENUMMER.

Belle Group Sheen UK
Sheen, Nr.Buxton,
Derbyshire, SK17 0EU, GB

UK Sales
+44 (0)1298 84000
+44 (0)1298 84722
uksales@belle-group.co.uk

Export Sales
+44 (0)1298 84019
+44 (0)1298 84722
exportsales@belle-group.co.uk

Parts CENTRE

Unit 5, Bode Business Park, Ball Haye Green,
Leek, Staffordshire, ST13 6BW, GB
+44 (0)1538 380000 +44 (0)1538 380038
parts@belle-group.co.uk
warranty@belle-group.co.uk

www.belle-group.co.uk

GB Contents

Belle Group reserves the right to change machine specification without prior notice or obligation.

GB Introduction

Read this manual, carefully, observing all operating and safety instructions before, during and after using your machine, and maintain your machine in good working order.

Congratulations on your purchase of this quality concrete mixer from the Belle Group Range.

This machine is manufactured to conform to the EEC directives currently in force, is issued with a declaration of conformity and therefore displays the CE mark, applicable in territories where they are enforced. Retain this manual with your machine for future reference.

SAFETY AND ACCIDENT PREVENTION
Operation Instructions
All persons who apply, assemble, operate, start, control, maintain or repair this machine, must read and understand the operating instructions.

Owner Responsibility :
The owner must ensure that only qualified persons operate, maintain or repair this machine.

STORAGE
When not in use, store in a dry, locked place. Keep away from children.

Operation for the Intended Purpose :
Mixers are intended for the production of concrete, mortar and plaster. The mixer must be used for its intended purposes and is not suitable for the mixing of flammable or explosive substances. The mixers must not be used in an explosive atmosphere.

MAINTENANCE AND REPAIRS
When maintaining this machine only the manufacturers original replacement parts may be used. The user will lose any possible claims if replacement parts used are other than the makers original replacement parts.

Only authorised persons should repair the mixer, and within the requirements of the CE mark (where applicable), where no deviation to the original specification must take place.

Any maintenance and repairs carried out, to any of the electric components must be undertaken by a qualified electrician.

REPLACEMENT PARTS
Contact your nearest Belle Group dealer. When ordering replacement parts, please quote the product type, serial number & engine/motor model. Detail the part required in conjunction with the parts list provided, indicating the Part Number, Item Number and quantity required.

Safety Instructions

GB

Read these safety instructions.
Please read and understand all running/safety instructions before operating this machine.

Before starting the mixer

- Ensure engine oil is filled to correct level before operating mixer. **Note:** The engine must be lifted to the horizontal position when filling and checking oil.
- Check that all guards are in position and correctly fitted.
- **DO NOT** wear loose clothing or jewellery that may become entangled in the workings of this machine.
- Suitable clothing as follows should meet relevant EEC/local safety standards: overalls, work boots, goggles, face mask, gloves and ear defenders etc.
- **DO NOT** tip mixer onto the drum mouth when motor is running.
- Ensure that any trailing cable is protected against damage and not liable to be tripped over or trapped underneath the mixer.
- **We recommend the use of an Residual Current Device on 230v electrics.**
- Remove all packaging material before operating.

When operating the mixer

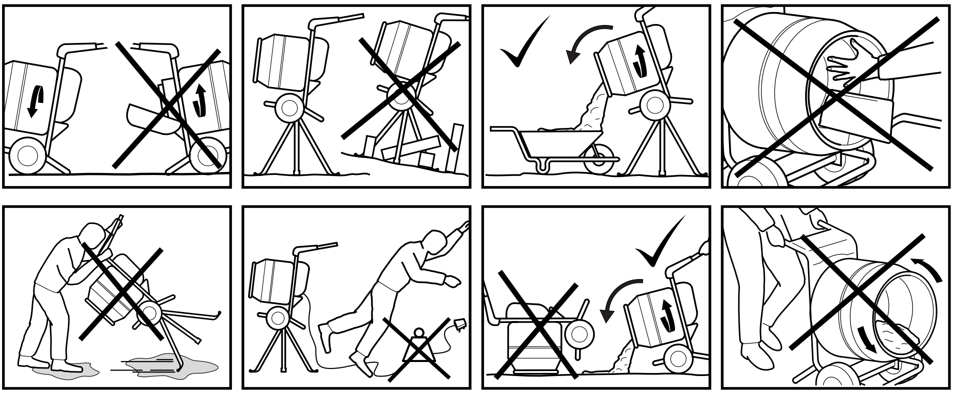
- Keep unauthorised persons away from mixing drum.
- Keep area around the mixer clear of obstructions which could cause persons to fall onto moving parts.
- Always ensure mixer is on level ground before mixing.
- **DO** become familiar with the controls before operating this machine.
- **DO** ensure that all guards are fitted in the correct position.
- **DO** ensure plenty of ventilation when running diesel/petrol engines in a confined area.
- **DO** replace any worn/damaged warning decals.
- **DO** ensure the drum is rotating while emptying the mixer.
- **DO** always switch off and remove the plug from the socket if leaving the machine unattended.
- **DO NOT** use as a wheel barrow. Disconnect from power supply before moving.
- **BEWARE** of the Danger Zones & Hot Zones.
- **BE A WARE** of exhaust venting directions.

Emergency Stop

If you have to turn off the mixer in a emergency you must:
Electric: either turn off at switch or at the mains,
Petrol: turn the engine switch off, see engine manual.

Fire Fighting

If your mixer catches fire, turn off the electric supply. Using a dry powder or CO_2 fire extinguisher put out the fire. If the fire can not be put out, keep away and call the fire brigade.
If you are in any doubt about the safety condition of your machine, please contact your Belle authorized Service Dealer.



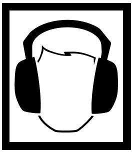
Warning - Important Should the socket outlets in your home not be suitable for the plug supplied with your product, the plug must be removed (cut-off if it is a moulded plug and disposed of) and an appropriate plug fitted. Follow wiring instructions carefully. Do not connect either core to the earth pin, as this is a Class II Isolated Product. **BLUE = NEUTRAL BROWN = LIVE**
As the colours of the wires in the mains lead of this appliance may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows: The wire which is coloured Blue must be connected to the terminal which is is marked with the letter N or coloured Black. The wire which is coloured Brown must be connected to the terminal which is is marked with the letter L or coloured Red.

Warning Decals / Decalcomanies D'avertissement / Calcomanias de Advertencia / Autocolantes de Aviso / Waarschuwingsstickers

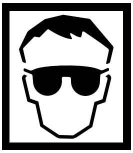
(GB) Warning Decals / (F) Decalcomanies D'avertissement
(E) Calcomanias de Advertencia / (P) Autocolantes de Aviso
(NL) Waarschuwingsstickers



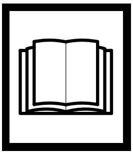
WARNING
AVERTISSEMENT
AVISO
AVISO
WAARSCHUWING



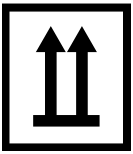
WEAR EAR PROTECTION
PORT DE PROTECTION ACOUSTIQUE
LLEVE OREJERAS
UTILIZE PROTECÇÃO AUDITIVA
RAAG OORBESCHERMERS



WEAR EYE PROTECTION
PORT DE LUNETTES DE PROTECTION
LLEVE ANTEOJOS
UTILIZE PROTECÇÃO OCULAR
DRAAG OOGBESCHERMING



READ OPERATOR MANUAL
LIRE LE MANUEL D'UTILISATION
LEA EL MANUAL DEL USUARIO
LEIA O MANUAL DO OPERADOR
LEES DE GEBRUIKERSHANDLEIDING



THIS WAY UP
HAUT
ESTE LADO HACIA ARRIBA
ESTE LADO PARA CIMA
DEZE ZIJDE BOVEN



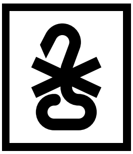
CAUTION TAKEN WHEN HANDLING
ATTENTION LORS DE LA MANIPULATION
SE REQUIERE PRECAUCION AL MANIPULARLA
TENHA CUIDADO DURANTE O MANUSEAMENTO
VOORZICHTIG HANTEREN



FIRE AND EXPLOSIVE RISK
RISQUE D'INCENDIE ET D'EXPLOSION
RIESGO DE INCENDIO Y EXPLOSION
RISCO DE INCÊNDIO E DE EXPLOSÃO
BRAND- EN ONTPLOFFINGSGEVAAR



WEAR PROTECTIVE FOOTWEAR
PORT DE CHAUSSURES DE PROTECTION
LLEVE CALZADO PROTECTOR
UTILIZE CALÇADO DE PROTECÇÃO
DRAAG BESCHERMSCHOEISEL



DO NOT HANG
NE PAS SUSPENDRE
NO DEBE COLGARSE
NÃO PENDURE
NIET OPHANGEN



ONLY STACK 3 HIGH
EMPILAGE LIMITÉ À 3 NIVEAUX
SOLO DEBE APILARSE A 3 NIVELES
EMPILHAR APENAS A 3 NÍVEIS
NIET MEER DAN 3 HOOG STAPELEN

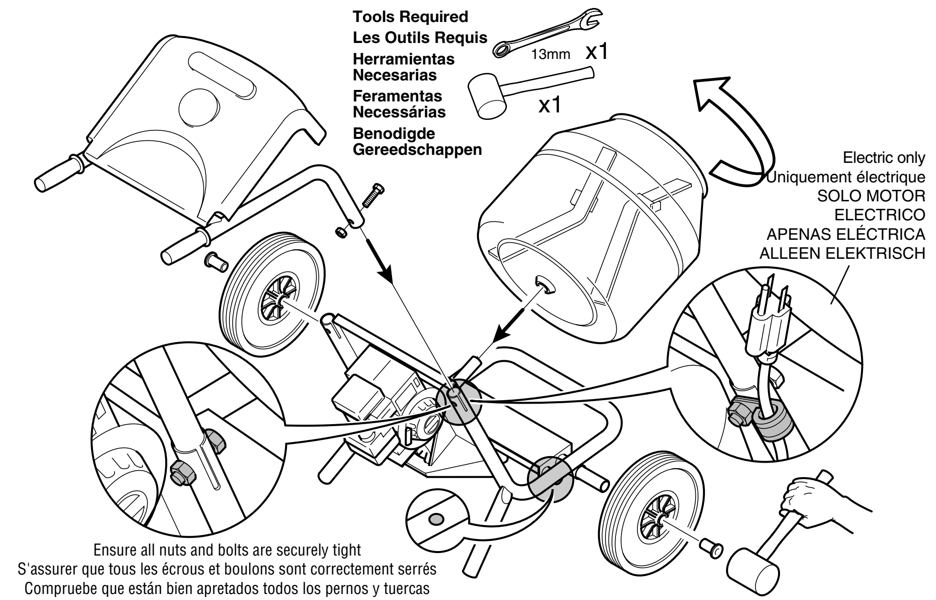
Assembly Instructions / Instructions de Montage

Instrucciones de Montaje / Instruções de Montagem

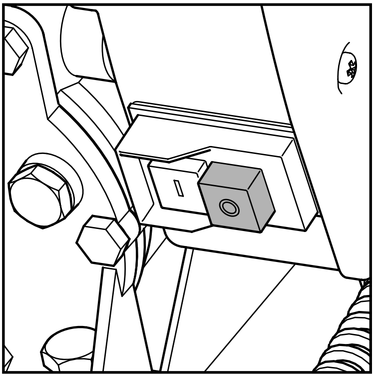
Montagevoorschriften

(GB) (F) (E) (P) (NL)

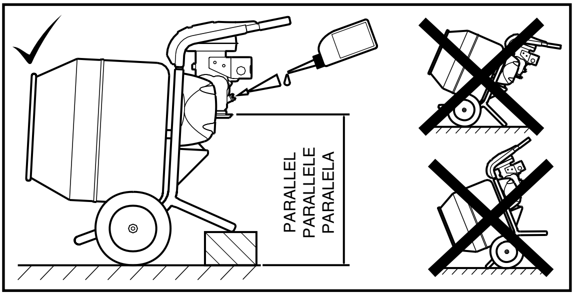
Ensure drum fits right up to the shoulder on the shaft. Do not spin on fast as this may damage the gearbox
Vérifier que le tambour s'engage à fond jusqu'à l'arbre. UNE ROTATION TROP RAPIDE D'ENDOMMAGER LA BOITE D'ENGRENAGES
Cerciórese de que enrosca el tambor hasta el reborde en el eje. NO LO HAGA GIRAR MUY RAPIDAMENTE, YA QUE PODRA DAÑARSE LA CAJA REDUCTORA
Assegure-se de que o tambor se adapta ao ombro no eixo. NÃO RODE RAPIDAMENTE POIS PODERÁ DANIFICAR A ENGRENAGEM
Controleer of de trommel vast tegen de kraag op de as zit. TROMMEL EL NIET TE SNEL OPDRAAIEN, WANT HIERDOOR KAN TANDWIELKAST BESCHADIGD RAKEN



Ensure all nuts and bolts are securely tight
S'assurer que tous les écrous et boulons sont correctement serrés
Compruebe que están bien apretados todos los pernos y tuercas
Assegure-se de que todas as porcas e parafusos estão bem apertados
Controleer of alle moeren en bouten stevig vastzitten.



Emergency Stop Button (Electric Only)
Bouton d'arrêt d'urgence (Uniquement électrique)
Botón de parada de emergencia (SOLO MOTOR ELECTRICO)
Botão de Paragem de Emergência (APENAS ELÉCTRICA)
Noodstopknop (ALLEEN ELEKTRISCH)



PLEASE NOTE: SUPPLIED WITH NO OIL IN PETROL ENGINE
USE BOTTLE PROVIDED FOR INITIAL ENGINE FILL

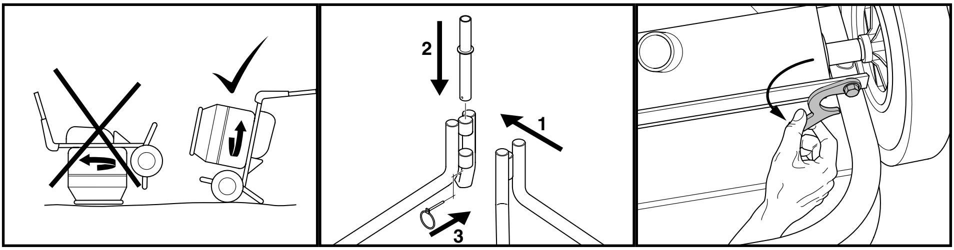
IMPORTANT: FOURNI SANS HUILE DANS LE MOTEUR A ESSENCE
UTILISER LA BOUTEILLE FOURME POUR LA PREMIERE UTILISATION.

NOTA: EL MOTOR DE GASOLINA SE SUMINISTRA SIN ACEITE
UTILIZAR LA BOTELLA SUMINISTRADA PARA EL PRIMER LLENADO

É FAVOR NOTAR: FORNEDCIDO SEM OLÉO NO MOTOR A GASOLINA
USAR RECEPIENT FORNECIDO PARA ENCHIMENTO INICIAL DO MOTOR

LET OP: BENZINEMOTOR IS BIJ AFLEVERING NIET GEVULD MET OLIE
GEBRUIK BIJGELEVERDE FLES VOOR AFVULLEN MACHINE

(GB) Stand Assembly / Montage Du Support (F)
(E) Montaje Del Caballete / Conjunto Do Suporte (P)
(NL) Montage Standaard



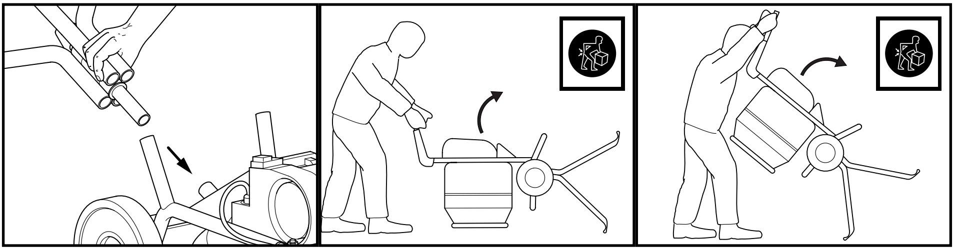
DO NOT tip mixer onto drum mouth when motor is running.

NO vuelque la amasadora contra la boca del tambor con el motor en marcha.

NE PAS basculer la bétonnière sur l'ouverture du tambour lorsque le moteur tourne.

NÃO volte a betoneira para dentro da boca do tambor com o motor em funcionamento.

Kantel de betonmolen NIET op de trommelopening wanneer de motor draait.



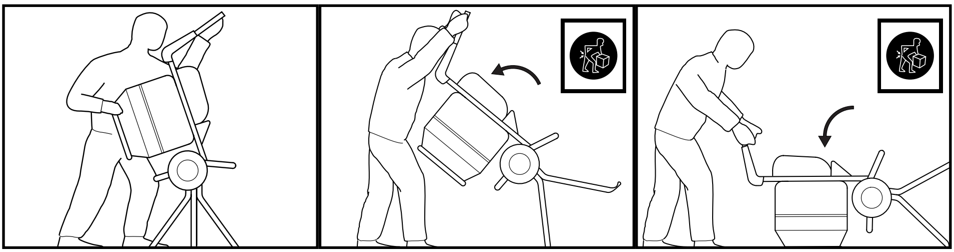
CAUTION whilst rotating mixer up into stand position, always lift from front of mixer.

PRECAUCIÓN: Al girar la mezcladora a su posición vertical levántela siempre desde la parte delantera de la mezcladora.

ATTENTION tout en faisant tourner le mixeur pour le monter en position immobile, levez toujours par l'avant du mixeur.

CUIDADO: ao rodar o misturador para cima, para a posição vertical, levante-o sempre a partir da parte da frente.

LET OP! Als u de mixer naar de rechtopstaande stand draait, moet u hem altijd aan de voorkant van de mixer optillen.



NOTE: When ready for dismantling the mixer after use, follow all the previous procedures but in reverse order. Ensure Stand Clip is located correctly onto frame.

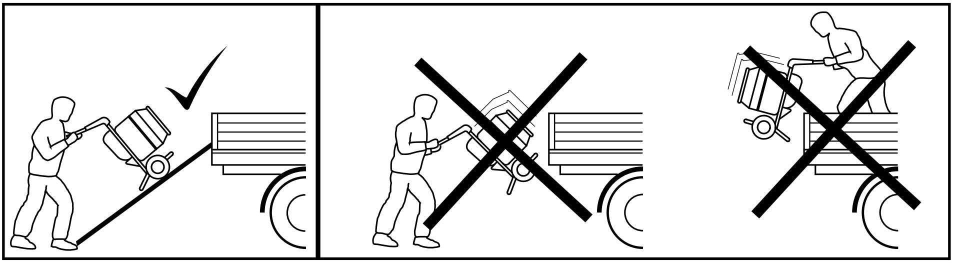
NOTA: Cuando esté listo para desmontar la mezcladora después de utilizarla, siga todos los pasos anteriores en orden inverso. Asegúrese de que el clip del soporte está situado correctamente en el marco.

REMARQUE: Une fois prêt à démonter le mixeur après usage, suivez toutes les procédures précédentes, mais en sens inverse. Veillez à ce que l'attache de position immobile soit placée correctement sur le bâti.

NOTA: quando o misturador estiver pronto para ser desmontado depois da utilização, siga todos os procedimentos anteriores mas na ordem inversa. Certifique-se de que o Grampo de fixação vertical está correctamente posicionado na armação.

OPMERKING: Als u de mixer na gebruik uit elkaar wilt halen, moet u de voorgaande procedures in omgekeerde volgorde uitvoeren. Controleer of de positioneringsklem goed op het frame zit.

Loading & Unloading



Never remain under or in the immediate vicinity of the machine when it is lifted by a crane. Only use marked lifting points. Always make sure that all lifting devices are dimensioned for the weight of the products.

Mixing Hints

A few hints on mixing. First add water, about 1½ gallons approximately, depending on the type of mix. Cement should go in after some of the aggregates work consistently to the ratio of ingredients as listed below for whatever type of concrete mix you are working to. Beware of low grade aggregates, this only leads to trouble later on with sinking and frost spoiling the appearance of the pour. Also importantly do not get the concrete mix too wet as this can reduce the strength and is less able to withstand weathering. Never throw material into the mixer, trickle it steadily over the rim or it will stick firmly to the back of the drum and can only be dislodged by stopping the mixer. The approximate mixing time for concrete is 2½ minutes, this is taken when all the material, including the water has entered the drum. Over mixing can reduce strength and cause segregation of the coarser aggregates.

Keep your mixer clean, the slightest trace of material left in the drum, will harden and attract more each time you use it until the machine is useless. Do not throw bricks into a mixer drum to clean it out. The best method is 1” gravel and clean water, use plenty of it, as this will do the job in half the time.

TABLE OF CONCRETE MIXES	MIX	BATCH QUANTITIES					APPROX. BATCH OUTPUT	
		CEMENT 112 lb. 50kg bag	SAND		STONE			
			CU.FT	LTR	CU.FT	LTR	CU.FT	LTR
MOST ORDINARY	1:2:4	1/2 BAG	1 1/4	35	2 1/2	71	3	85
FOUNDATIONS	1:3:6	1/3 BAG	1 1/4	35	2 1/2	71	2 3/4	78
ROUGH MASS CONCRETE	1:4:8	1/4 BAG	1 1/4	35	2 1/2	71	2 3/4	78
WATERTIGHT FLOORS, TANKS PITS, ETC.	1:1 1/2:3	2/3 BAG	1 1/4	35	3	71	3	85

5 No 2 shovels = approx. 1 cu.ft

Service & Maintenance

Before starting any maintenance or repairs, switch off motor, and isolate from the main power supply.
On completion of maintenance, check that the mixer functions correctly and that all guards are correctly fitted.

ELECTRIC MIXER
All portable electric appliances are dangerous if abused. This machine will only operate on one voltage. Check the power supply to ensure it corresponds to the voltage as indicated on the rating label.

Make sure that the motor is switched off before you plug it into the power supply.

230v - Always use a Residual Current Device ("RCD"), (earth leakage trip), plugged directly into the 230v socket. If using an extension cable, plug it directly into the RCD.

110v - When using a portable transformer it must have a minimum output of 2.5kw and to continuous rated.
The symbols on the ON/OFF switch are 0 (Red)=OFF and I (Green)=ON in accordance with international standards.

> DO NOT use an extension cable between the transformer and the power supply.
> Always ensure that the cable between the 110v mixer and transformer is a minium length of 3 metres.
> Ensure cable is fitted with cable clip to the mixer frame at all times.

EXTENSION CABLES
If you need to use an extension cable it must be no longer than 30 metres (100 feet) in length. The wire section must be 1.5mm^2 on 230v. Ensure that the extension cable is carefully laid out avoiding liquids, sharp edges and places where vehicles might run over it. Avoid allowing the extension cable to be trapped underneath the mixer. Unroll it fully or it will overheat and could catch fire. Make sure that any extension cable connections are dry and safe.

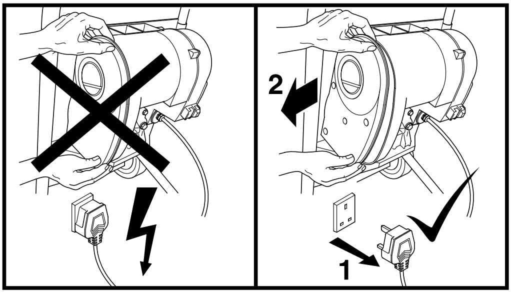
COMBUSTION ENGINES
Check oil regularly, level engine up when doing so. For Initial engine fill or top up use a suitable engine oil of a 10W/30 grade. In your own interests read the makers instruction leaflet issued with the machine before starting up.

CLEANING
Wipe off any external material. **DO NOT** use petrol, turpentine, lacquer or paint thinner, dry cleaning fluids or similar products. Never let any liquids near the engine/motor. Use 1” gravel and clean water to clean the inside of the drum. **DO NOT** use bricks etc. as this will damage the drum.

FRAME
The hole on the underside of the frame is to drain away any water.

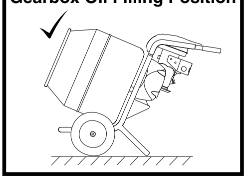
BELT

> All Belle mixers Electric/Petrol are fitted with a preset tensioned toothed belt. No adjustment is necessary.
>
> DO NOT try to adjust with the motor running.
>
> Ensure the extension lead is always unplugged before the motor cover is removed.

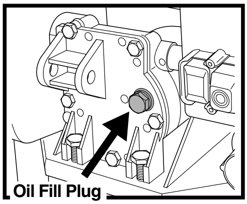


GEARBOX
The factory has preset the gearbox oil level.
Before inspecting the gearbox oil level, make sure the gearbox is cold before removing the filler plug.
Top up with EP90 or similar gear oil in the mix position to the level of the filler plug.

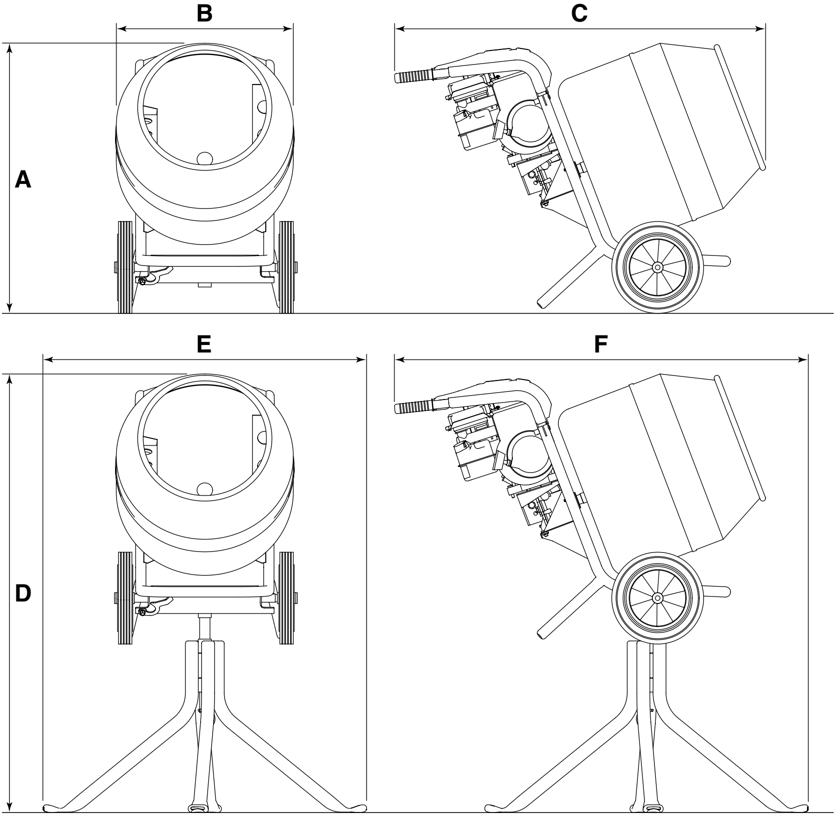
Gearbox Oil Filling Position



Mixing Position



GB Technical Data / Caracteristiques Techniques F
E Datos Techicos / Dados Técnicos P
NL Technische Gegevens



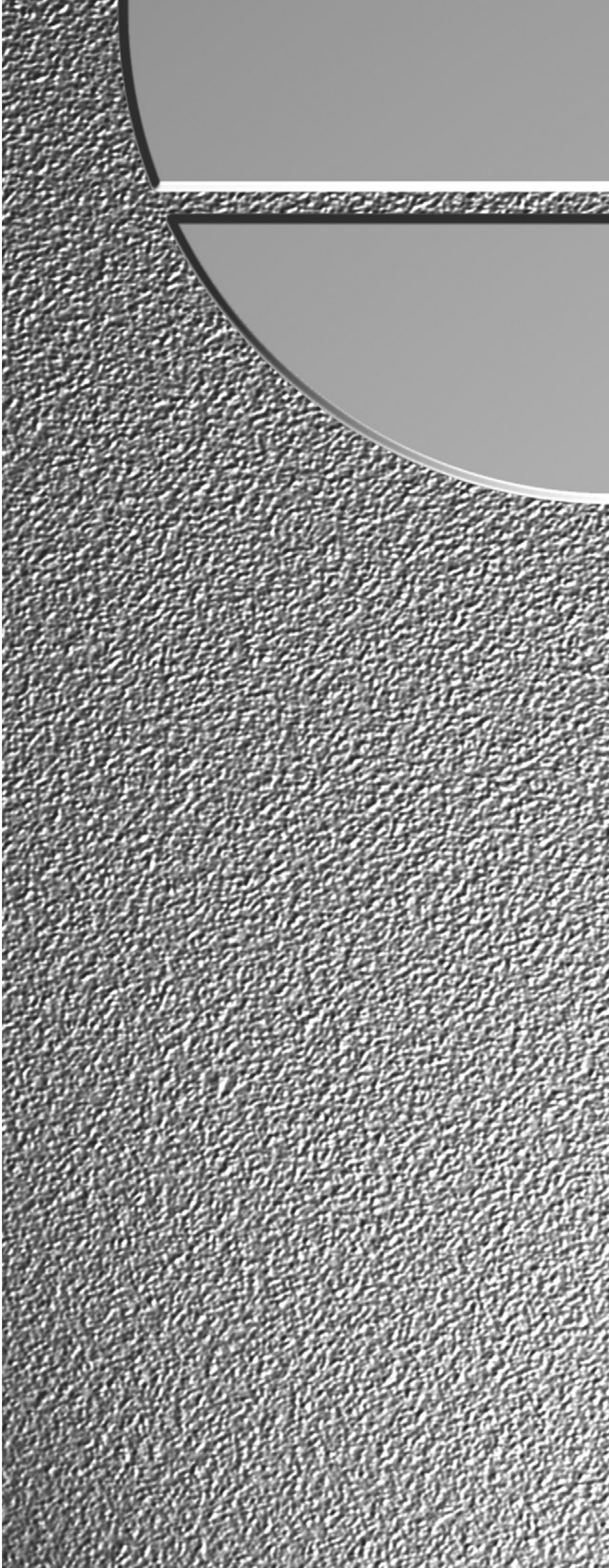
Mixer Model	Modèle de la bétonnière	Modelo de hormigonera	Modelo de betoneira	Model mixer	**MINI 150**
Overall Dimensions	**Dimensions hors tout**	**Dimensiones exteriores**	**Dimensões totais**	**Globale afmetingen**	
A - Height (off stand)	**A** - Hauteur (hors support)	**A** - Altura (sin caballete)	**A** - Altura (fora do suporte)	**A** - Hoogte (zonder standaard)	897 mm
B - Width (off stand)	**B**- Largeur (hors support)	**B**- Anchura (sin caballete)	**B** - Largura (fora do suporte)	**B** - Breedte (zonder standaard)	597 mm
C - Length (off stand)	**C** - Longueur (hors support)	**C** - Longitud (sin caballete)	**C** - Compriment (fora do suporte)	**C** - Lengte (zonder standaard)	1211 mm
D - Height (on stand)	**D** - Hauteur (sur support)	**D** - Altura (con caballete)	**D** - Altura (no suporte)	**D** - Hoogte (op standaard)	1431.5 mm
E - Width (on stand)	**E**- Largeur (sur support)	**E**- Anchura (con caballete)	**E** - Largura (no suporte)	**E** - Breedte (op standaard)	1056.5 mm
F - Length (on stand)	**F** - Longueur (sur support)	**F** - Longitud (con caballete)	**F** - Compriment (no suporte)	**F** - Lengte (op standaard)	1227mm

MINI 150 ELECTRIC MINI 150 ELECTRIQUE MINI 150 ELECTRICA MINI 150 ELÉCTRICA MINI 150 ELEKTRISCH

GB	F	E	P	NL	110V 50Hz	230V 50Hz	230V 60Hz	415V 50Hz
Unladen Weight - Electric	Poids à vide - électrique	Peso sin carga	Peso Descarregada - Eléctrica	Leeg gewicht - Elektrisch	57 kg	57 kg	57 kg	57 kg
Stand Weight	Poids du support	Peso del caballete	Peso do Suporte	Gewicht standaard	9.5 kg	9.5 kg	9.5 kg	9.5 kg
Maximum Drum Capacity	Capacité maxi. tambour	Capacidad máx. del tambor	Capacidade Máxima do Tambor	Maximale inhoud trommel	136 ltr	136 ltr	136 ltr	136 ltr
Maximum Mixing Capacity	Capacité maxi. malaxage	Capacidad máx. de mezclado	Capacidade Máxima de Mistura	Maximale menghoeveelheid	90 ltr	90 ltr	90 ltr	90 ltr
Drum speed (RPM)	Vitesse du tambour (tr./min)	Velocidad del tambor (RPM)	Velocidade do tambor (RPM)	Draaisnelheid trommel (t.p.m.)	24	24	24	24
Electric Equipment	**Equipement électrique**	**Equipo eléctrico**	**Equipamento Eléctrico**	**Elektrische uitrusting**				
Nominal Voltage	Tension nominale	Tensión nominal	Tensão Nominal	Nominale spanning	110V	230V	230V	415V
Nominal Current	Courant nominal	Corriente nominal	Corrente Nominal	Nominale stroom	5.5 amp	2.6 amp	3 amp	1 amp
Nominal Power	Puissance nominale	Potencia nominal	Potência Nominal	Nominaal vermogen	0.6 kw	0.55 kw	0.6 kw	0.55 kw
Current Frequency	Fréquence de courant	Frecuencia	Frequência da Corrente	Netfrequentie	50 Hz	50 Hz	60 Hz	50 Hz
Motor R.P.M.	Régime du moteur (tr/min)	RPM del motor	RPM do Motor	Motortoerental	2850	2850	3480	2780
Protective System	Système de protection	Sistema de protección	Sistema de Protecção	Beschermingsklasse	IP45	IP45	IP45	IP45
Power Consumption	Consommation d'énergie	Consumo de energía	Consumo de Energia	Energieverbruik	600 watts	550 watts	670 watts	550 watts
Sound Power Level	Niveau de puissance sonore	Nivel de potencia acústica	Nível de potência de som	Gemeten geluidssterkteniveau	84 dB(A)	84 dB(A)	84 dB(A)	84 dB(A)

MINI 150 PETROL MINI 150 A ESSENCE MINI 150 GASOLINA MINI 150 A GASOLINA MINI 150 BENZINE

GB	F	E	P	NL	BRIGG & STRATTON	HONDA	ROBIN
Unladen Weight - Petrol	Poids à vide - essence	Peso sin carga	Peso Descarregada - Gasolina	Leeg gewicht - Benzine	61.5 kg	56 kg	60 kg
Stand Weight	Poids du support	Peso del caballete	Peso do Suporte	Gewicht standaard	9.5 kg	9.5 kg	9.5 kg
Maximum Drum Capacity	Capacité maxi. tambour	Capacidad máx. del tambor	Capacidade Máxima do Tambor	Maximale inhoud trommel	136 ltr	136 ltr	136 ltr
Maximum Mixing Capacity	Capacité maxi. malaxage	Capacidad máx. de mezclado	Capacidade Máxima de Mistura	Maximale menghoeveelheid	90 ltr	90 ltr	90 ltr
Drum speed (RPM)	Vitesse du tambour (tr/min)	Velocidad del tambor (RPM)	Velocidade do tambor (RPM)	Draaisnelheid trommel (t.p.m.)	24	24	24
Combustion Engine	**Moteur à combustion**	**Motor de combustión**	**Motor de Combustão**	**Verbrandingsmotor**			
Model	Modèle	Modelo	Modelo	Model	3.5HP IC	GXH50	EH09DU
Kind of Fuel	Type de combustible	Clase de combustible	Tipo de Combustível	Soort brandstof	Petrol (Unleaded)	Petrol (Unleaded)	Petrol (Unleaded)
Nominal Power	Puissance nominale	Potencia nominal	Potência Nominal	Nominaal vermogen	2.2 kw@2800 Rpm	1.2 kw@3800 Rpm	1.5 kw@2800 Rpm
Sound Power Level	Niveau de puissance sonore	Nivel de potencia acústica	Nível de potência de som	Gemeten geluidssterkteniveau	92 dB(A)	92 dB(A)	92 dB(A)



Belle Group Head Office

Sheen, Nr.Buxton, Derbyshire,
SK17 0EU, GB.
+44 (0)1298 84606
+44 (0)1298 84722
sales@belle-group.co.uk
http://www.bellegroup.com